PMP CORPORATION

Valve Rebuild Kit Installation

PMP P/N 80187

**READ THIS BEFORE YOU BEGIN**

**Dispensers have both electricity and hazardous, flammable and potentially explosive liquid. Failure to follow the precautions below and instructions in this guide may result in serious injury and death. Follow all rules, codes and laws that apply in your area.**

**SAFETY PRECAUTIONS FOR INSTALLATION AND MAINTENANCE**

- **Only a person with knowledge and experience with gasoline dispensing equipment should perform this work.**
- **Barricade the work area with your truck and/or other appropriate means.**
- **Always make sure ALL power to the dispenser is turned OFF before you open the dispenser cabinet for maintenance. Physically lock and tag out the circuit breakers energizing the dispenser following OSHA guidelines.**
- **Note that more than one disconnect switch may be required to de-energize the dispenser for maintenance and servicing. Use a voltmeter to make sure ALL circuits in the dispenser are de-energized. Failure to do so may result in serious injury.**
- **Trip (Close) the emergency "Crash" valve(s) under the dispenser BEFORE beginning.**
- **Know how and where to turn OFF power to the submersible pumps in case of emergency.**
- **Repair all leaks or defects that you find, before proceeding.**

If you have questions concerning installation of this kit, contact us at 1.800.243.6628

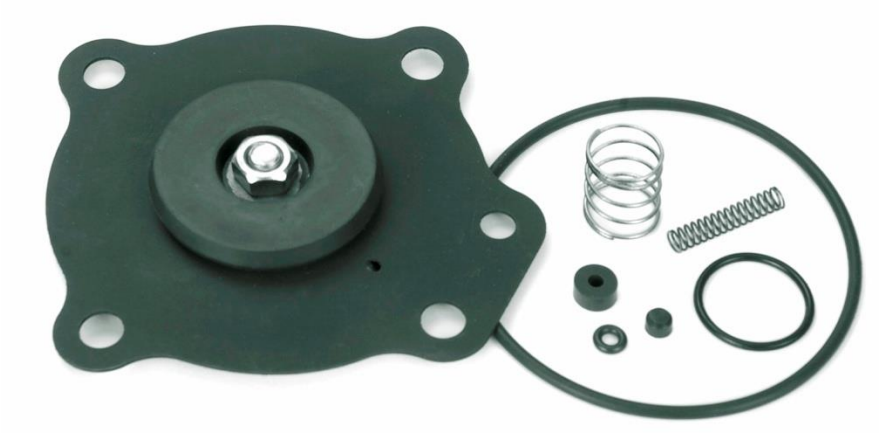
# Valve Repair Kit Installation Instructions (PMP p/n 80187)

(Rev 8/09/2012)

PMP Valve Repair Kit #80187 is used in the following 2-stage valve:

- Gasboy® 067034 / Wayne 889845-001 (Parker-Skinner 1" XLG201030/XLG201160/XLG201050, PMP #22057)

## Contents of kit



| Part Name | Qty |
|---|---|
| Upper spring (narrow) | 1 |
| Upper plunger seal | 1 |
| Lower plunger seal | 1 |
| Flange O-ring | 1 |
| Diaphragm spring | 1 |
| Diaphragm assembly | 1 |
| Body O-ring | 1 |
| Pilot port O-ring | 1 |
| Polishing paper | 1 |

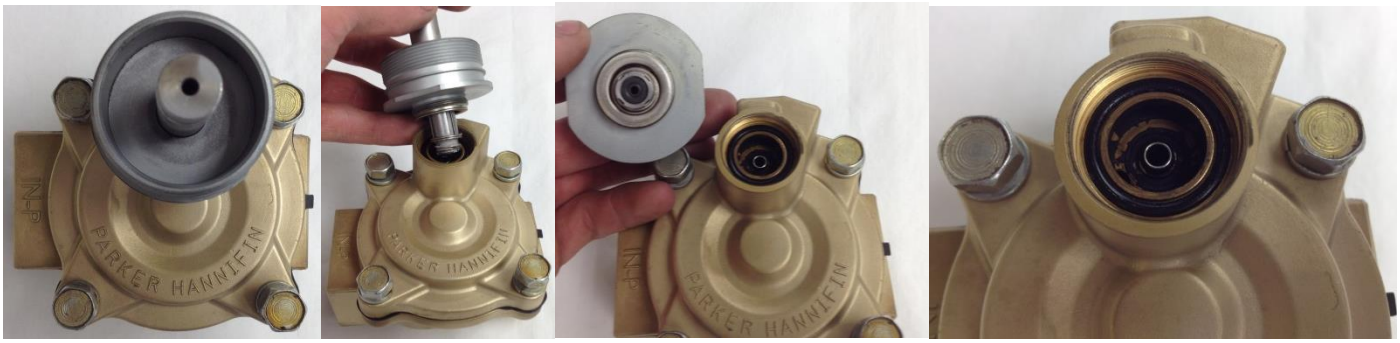
## Tools required for installation

- ½" socket wrench
- 1-3/4" wrench
- Needle-nose pliers
- Torque wrench

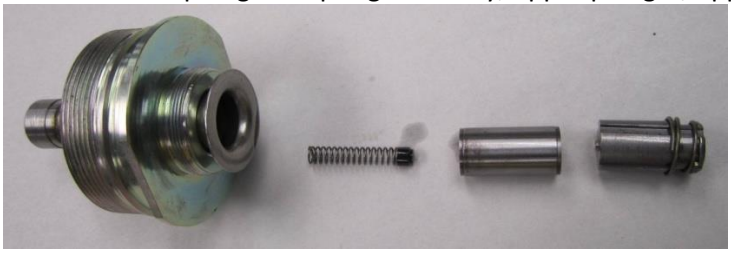
## Kit installation procedure

1. Prepare a safe and clean work area.
2. Turn off electrical power to the valve and/or dispenser, and shut off fluid supply to the system. Depressurize piping.
3. Remove coil and conduit assembly from the top of the valve. This will include:
   a) Detach wiring from junction box or driver board.
   b) Loosen conduit components so that the coil/conduit assembly, then coil flange, can be removed from the valve cover.

   CAUTION: Several small components will be loose once the coil flange/stem is clear from the valve body.

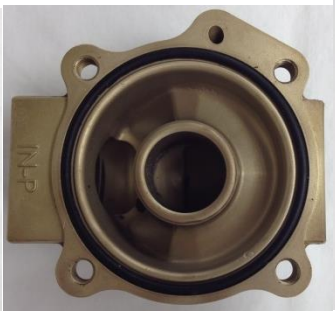



4. Remove lower plunger & spring assembly, upper plunger, upper plunger seal, upper spring, and flange O-ring.

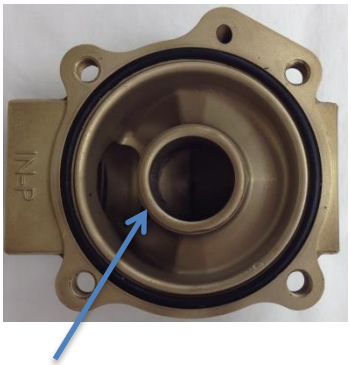


5. Discard upper plunger seal, upper spring (if desired), and flange O-ring. Remove and discard the lower plunger seal.
6. Remove the valve cover from the valve body by removing (4) screws. Save the screws for reassembly.






7. Remove the diaphragm spring, diaphragm, the large body O-ring, and the small pilot port O-ring. Discard all.
8. Remove any debris from the inside of the valve body and valve cover.
9.



This surface must be clean and smooth.

10. Inspect the central ring where the diaphragm seat seals. Remove any debris with the #400 polishing paper provided. There must not be any defects or gouges in this surface, or the valve will not function properly.
11. Remove any debris from the outer O-ring seat and diaphragm seating surfaces on the valve body and valve cover.
12. Install the new body O-ring.
13. Install the new diaphragm assembly in the valve body with the cupped metal retainer facing away from the valve body. Make sure the holes in the valve body and diaphragm line up.
14. Install the new diaphragm spring, centering it over the diaphragm assembly screw head.
15. Install the new pilot port O-ring in the valve cover groove. Grease may be applied to hold this in place.
16. Install the valve cover. Make sure the pilot port O-ring also centers in the diaphragm hole.
17. Install (4) screws. Start all screws by hand, then tighten in a "star" pattern to 75 ± 10 in-lbs.
18. Install new flange O-ring in the valve cover port where the coil flange is mounted.
19. Inspect plungers and remove any debris.
20. Insert the small stepped seal into the upper plunger, small end first.
21. Insert the new plunger spring behind the stepped seal in the upper plunger.
22. Insert new lower plunger seat into the lower plunger cavity. You may need to apply grease to the plunger or seal to allow easy assembly. Carefully press seat fully into plunger until it is flush.
23. Slide the plungers & spring assemblies into the coil stem as shown above.
24. Thread the coil flange/stem onto the valve cover, being careful to keep the plungers in place. Tighten to 90 ± 10 in-lbs.
25. Reinstall coil/conduit.



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